PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE ADDITION OF APS PEDESTRIAN SIGNALS TO THE SOUTH LEG OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF US I (WASHINGTON BLVD) AT MD 103 (MEADOWRIDGE RD / DORSEY RD) IN HOWARD COUNTY, MARYLAND.

US I IS CONSIDERED TO RUN IN A NORTH/SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL CONTINUE TO OPERATE IN A SIX PHASE, FULLY TRAFFIC ACTUATED MODE. THERE IS AN EXCLUSIVE / PERMISSIVE LEFT TURN PHASE FOR BOTH THE NORTHBOUND AND SOUTHBOUND MOVEMENTS OF US 1. THE US 1 THROUGH MOVEMENTS OPERATE CONCURRENTLY, MD 103 MOVEMENT OPERATES ON A SIDE STREET SPLIT MODE.

CONTROLLER REQUIREMENTS

AN EXISTING FULLY - TRAFFIC - ACTUATED - EIGHT- PHASE TRAFFIC SIGNAL CONTROLLER IN A BASE - MOUNTED SYSTEM READY CABINET WILL REMAIN AT THIS LOCATION.

APS OPERATION

TO CROSS WASHINGTON BLVD FROM MEADOWRIDGE RD.

- A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSH BUTTON MESSAGE WILL BE "WAIT TO CROSS WASHINGTON AT MEADOWRIDGE WAIT"
- B. WHEN PHASE WALK BEGINS, THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

TO CROSS WASHINGTON BLVD FROM DORSEY RD.

- A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSH BUTTON MESSAGE WILL BE "WAIT TO CROSS WASHINGTON AT DORSEY WAIT"
- B. WHEN PHASE WALK BEGINS. THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

THE CONTRACTOR SHALL CONTACT ED RODENHIZER AT THE SIGNAL SHOP 410-787-7650 TO DELIVER APS EQUIPMENT FOR TESTING.

PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT *7 ARE AS FOLLOWS:

Mr. John Concannon Assistant District Engineer - Traffic Phone: 301-624-8140

Ms. Andrea Abend District Utility Engineer Phone: 301-624-8115

Ms. Sue Palmer Assistant District Engineer - Maintenance Phone: 301-624-8108

Mr. John Huchrowski Assistant District Engineer - Construction Phone: 301-624-8201

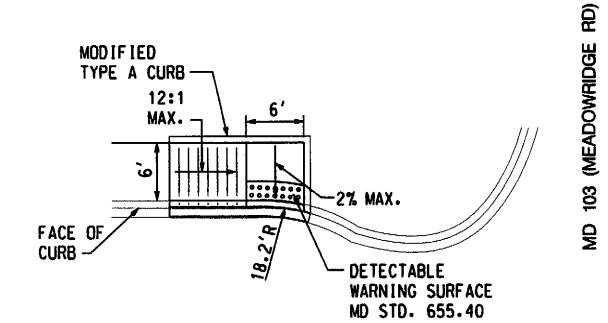
THE CONTACT PERSONS FOR OFFICE OF TRAFFIC AND SAFETY ARE AS FOLLOWS:

Mr. Edward Rodenhizer Chief, SHA Traffic Signal Shop Phone: 410-787-7650

Mr. Richard L. Daff Sr. Chief, Traffic Operations Division Phone: 410-787-7630

The Power Company Representative is: Baltimore Gas & Electric Company 7317 Parkway Drive South Hanover, MD 21076 Phone: 410-859-9062

NW SIDEWALK AND RAMP DETAIL



US RTE 1 (WASHINGTON BLVD)

EQUIPMENT LIST 'A'

EQUIPMENT TO BE FURNISHED BY THE SHA.

CATEGORY CODE NO. QUA

973023

QUANTITY

Y <u>DESCRIPTION</u>

2 S.F. SHEET ALUMINIUM SIGNS:

2 EACH: RIO-3(I) SIGN (9" x 15")
POLE MOUNT "PUSH BUTTON TO
CROSS WASHINGTON BLVD"

EQUIPMENT LIST 'B'

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

CONTRACT NO: C-0285-02

CATEGORY CODE NO.	QUANTITY	DESCRIPTION
120500	L.S.	MAINTENANCE OF TRAFFIC
203030	10 C.Y.	TEST PIT EXCAVATION
585621	160 L.F.	12 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
585625	50 L.F.	24 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
585700	50 L.F.	REMOVAL OF EXISTING PAVEMENT MARKING LINES, ANY WIDTH
800000	2 EA.	AUDIBLE TACTILE/PEDESTRIAN PUSHBUTTON AND SIGN
800000	2 EA.	16" LED COUNTDOWN PEDESTRIAN SIGNAL HEAD
800000	I EA.	2 - WIRE CENTRAL CONTROL UNIT
800000	15 S.F.	REMOVE EXISTING OVERHEAD SIGN MAST ARM MOUNTED
801004	1.4 C.Y.	CONCRETE FOR SIGNAL FOUNDATION
801607	2 S.F.	INSTALL SHEET ALUMINUM SIGN
802501	25 L.F.	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
805135	25 L.F.	3 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
805160	6 L.F.	I IN. LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
818004	2 EA.	IO FT BREAKAWAY PEDESTAL POLE
861105	460 L.F.	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
861107	445 L.F.	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
862101	445 L.F.	LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO 14 AWG)
862102	150 L.F.	SAW CUT FOR SIGNAL (LOOP DETECTOR)

EQUIPMENT LIST 'C'

EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

CATEGORY CODE NO.

NONE

QUANTITY

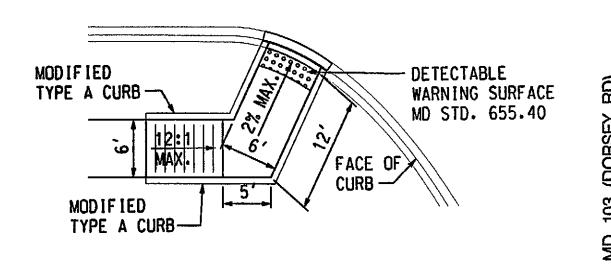
DESCRIPTION

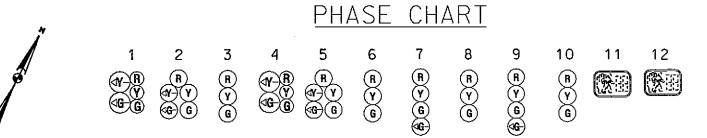
IAN

ALL REMOVED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

SW SIDEWALK AND RAMP DETAIL

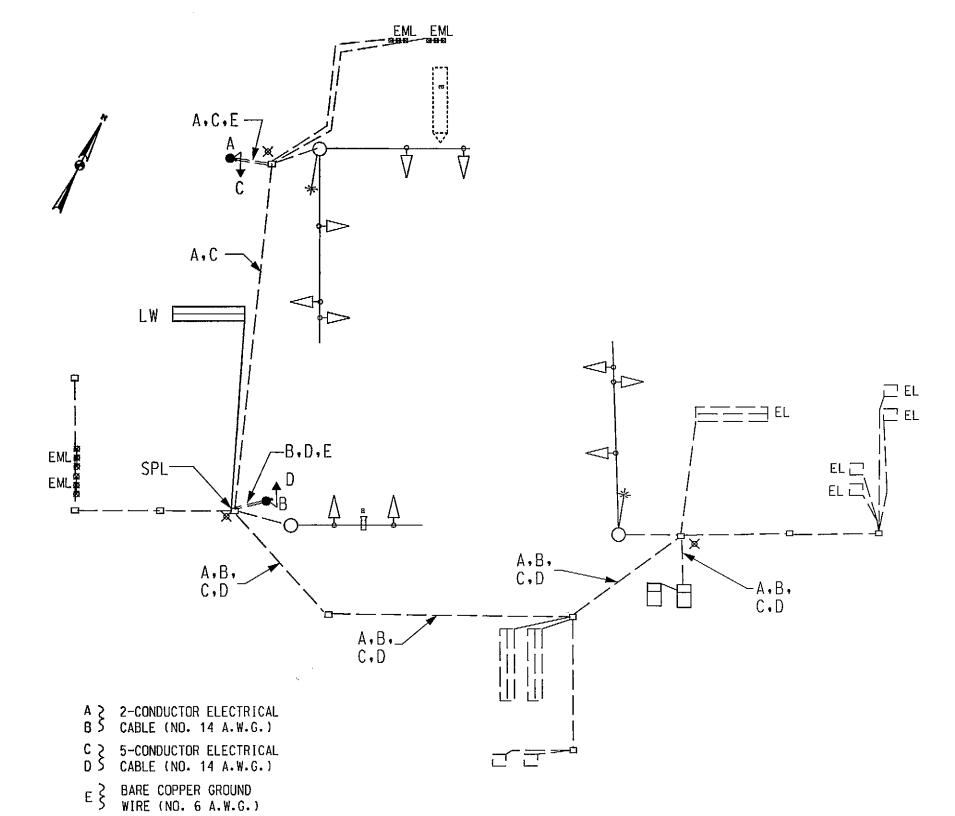
US RTE 1 (WASHINGTON BLVD)





PHASE 1 & 5	- G	-	R	 G	 -G—	R	R	R	R	R	D₩	D₩	<u></u>
1 & 5 CHANGE TO PHASE 1 & 6 OR PHASE 2 & 5 OR PHASE 2 & 6									₩				
PHASE 1 & 6	-G-	- 6-	G	R	R	R	R	R	R	R	D₩	DW	f
1 CHANGE	G Y	G-Y-	G	R	R	R	R	R	R	R	DW	DW	
PHASE 2 & 5	R	R	R	- G —	- -c-	G	R	R	R	R	DW	DW	\
5 CHANGE	R	R	R	- - G —	- G - - -Y	G	R	R	R	R	DW	DW	₹
PHASE 2 & 6	G	G	G	G	G	G	R	R	R	R	DW	DW	♦
2 & 6 CHANGE	Υ	Υ	Y	Y	Y	Y	R	R	R	R	D₩	D₩	—⇒
PHASE 3	R	R	R	R	R	R	R	R	+ 0-0-	G	D₩	D₩	₹Α
3 CHANGE	R	R	R	R	R	R	R	R	Y	Y	DW	D₩	
PHASE 4	R	R	R	R	R	R	- G—	G	R	R	DW	DW	
4 CHANGE	R	R	R	R	R	R	Y	 Y	R	R	DW	DW	Þ
PHASE 4 ALT.	R	R	R	R	R	R	G	G	R	Ř	WK	WK	•
PED CLEARANCE	R	R	R	R	R	R	G—G—	G	R	R	FL/DW	FL/DW	
4 Alt. CHANGE	R	R	R	R	R	R	Y	Υ	R	R	D₩	D₩	
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK	DARK	4 4 4 1

WIRING DIAGRAM



★ - EXISTING GROUND ROD

LW - PROPOSED VEHICLE LOOP DETECTOR

EL - EXISTING VEHICLE LOOP DETECTOR

EML - EXISTING MICRO-LOOP PROBE DETECTOR (NON-INVASIVE)

SPL - SPLICE PROPOSED LOOP WIRE INTO EXISTING 2 CONDUCTOR HANDHOLE

SHA

TS NO. 962 G

STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
US 1 CORRIDOR REVITALIZATION

US 1 AT MD 103 (MEADOWRIDGE RD /DORSEY RD)

6

JOHNSON, MIRMIRAN & THOMPSOM Engineering A Brighter Future®

72 Loveton Circle Baltimore, Maryland 21152-0949

	GENERAL INFORMATION SHEET									
	SCALE N.T.S. ADVERTISED DATE	AUG. 2, 2011	CONTRACT NO	C-0285-02						
	DESIGNED BY <u>CGM</u> DRAWN BY <u>JB</u>		HOWARD 13000107.05							
<u>. </u>	CHECKED BY GAB	TIMS NO.								
	FAP NO. <u>N/A</u>	TOD NO.								

SHEET NO. 20 OF 24

DRAWING **SG-04** OF 08

PLOTTED: \$DATETIME\$
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